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09/09/2004

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Georgann S. Grunebach Reg. No. (Depositor's name)
33,179 (Signature)
September 30, 2004 (Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/644,224	08/21/2000	Donald C. D. Chang	PD-200085	9954

TITLE OF INVENTION: STRATOSPHERIC-BASED COMMUNICATION SYSTEM FOR MOBILE USERS HAVING ADAPTIVE INTERFERENCE REJECTION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$0	\$1330	12/09/2004
EXAMINER		ART UNIT	CLASS-SUBCLASS		
TORRES, MARCOS L		2683	455-013200		

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1. Georgann S. Grunebach

2. John A. Crook III

3. _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

THE DIRECTV GROUP, INC.

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

El Segundo, California USA

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

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☒ Issue Fee☐ Publication Fee (No small entity discount permitted)☐ Advance Order - # of Copies _____

4b. Payment of Fee(s):

☐ A check in the amount of the fee(s) is enclosed.☐ Payment by credit card. Form PTO-2038 is attached.☒ The Director is hereby authorized by charge the required fee(s), or credit any overpayment Deposit Account Number 30-0383 (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

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Authorized Signature

Typed or printed name: Georgann S. Grunebach

Date: September 30, 2004

Registration No. 33,179

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 14 Alexandria, Virginia 22313-1450.

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Pages: Cover + 2 = 3

Date: September 30, 2004

Certificate of Transmission

From: Georgann S. Grunebach
Assistant General Counsel

Fax: (310) 964-0941
Phone: (310) 964-4615

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Georgann S. Grunebach September 30, 2004
(Name of Applicant, Assignee or Registered Representative) (Date of Facsimile Transmission)

Please find attached Re: Serial No.: 09/644,224

Filed: August 21, 2000

Inventor: Donald C.D. Chang, et al.

For: STRATOSPHERIC-BASED COMMUNICATION SYSTEM FOR MOBILE USERS HAVING ADAPTIVE INTERFERENCE REJECTION

Examiner: Marcos L. Torres (703) 305-1478 - Group Art Unit: 2683 - Confirmation No.: 9954

Attorney Docket No.: PD-200085

PTO Date of Mailing of Notice of Allowance and Fee(s) Due: September 9, 2004

Transmitted herewith, for the above-identified patent application, is the Issue Fee Transmittal Form (with authorization to charge the Issue Fee of \$1330.00 to Deposit Account No. 50-0383 of Hughes Electronics Corporation), in duplicate for charge purposes, via facsimile with certificate of facsimile transmission, pursuant to 37 CFR 1.8. Please charge the Issue Fee and any other required fee for this application and credit any overpayment to the Hughes Deposit Account No. 50-0383.

Georgann S. Grunebach
Georgann S. Grunebach, Registration No. 33,179

If you do not receive all pages, or pages are not clear, please call Karen Lum at (310) 964-0735.

Typed or printed name: Georgann S. GrunebachRegistration No. 33,179

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